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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,446	07/02/2005	Junichi Ooka	260917US3PCT	8610
22850 7590 02/12/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			FENSTERMACHER, DAVID MORGAN	
ALEXANDRI	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			3656	
			NOTIFICATION DATE	DELIVERY MODE
			02/12/2009	FLECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/511,446 OOKA, JUNICHI Office Action Summary Examiner Art Unit David M. Fenstermacher 3656 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed S D

 If NO period for reply is sp Failure to reply within the Any reply received by the 	om the mailing date of this communication. secified above, the maximum statutory period will apply and will e set or extended period for reply will, by statute, cause the application of the state than three months after the mailing date of this communer. See 37 CFR 1.704(b).	
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2a) ☐ This action is I 3) ☐ Since this app	<i>,</i> —	– n-final. or formal matters, prosecution as to the merits is
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4a) Of the abor 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1-20</u> 7) ☐ Claim(s)	is/are rejected.	
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10) The drawing(s) Applicant may n Replacement dr	on is objected to by the Examiner.) filled on is/are: a) accepted or b) is/are: a) accepted or b)_ on trequest that any objection to the drawing(s) be trawing sheet(s) including the correction is required tolaration is objected to by the Examiner. Note	held in abeyance. See 37 CFR 1.85(a). If the drawing(s) is objected to. See 37 CFR 1.121(d
riority under 35 U.S.C	C. § 119	
a)⊠ All b)□ So 1.⊠ Certified 2.□ Certified 3.□ Copies applicat	ent is made of a claim for foreign priority unde ome * c) \(\subseteq \text{None of:} \) d copies of the priority documents have been d copies of the priority documents have been of the certified copies of the priority documention from the International Bureau (PCT Rule and detailed Office action for a list of the certified copies of the priority documention from the International Bureau (PCT Rule and detailed Office action for a list of the certified copies of the certified copie	received. received in Application No ts have been received in this National Stage 17.2(a)).
tachment(s)		

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/SE/08) 6) Other: Paper No(s)/Mail Date 12/3/08 PTOL-326 (Rev. 08-06) Office Action Summary Part of Paper No./Mail Date 20090209 Application/Control Number: 10/511,446 Page 2

Art Unit: 3656

DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- Claims 1-20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by JP 11-300446 (cited by Applicant).

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mentley (2.346.266).

Mentley shows the claimed invention where a gear has crowning on different surfaces of the gear tooth (as seen in figures 2-6); these figures show that depending on the placement of the crowning, different results will be achieved. It is well established that Crowned Gears are necessary for applications where noise is a concern. Crowning

Application/Control Number: 10/511,446

Art Unit: 3656

gear teeth reduces noise by alleviating misalignment through either assembly or thrust problems.

Mentley is silent to the method used for making the crowning (forging or cutting).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a forging or cutting process to shape a gear since this is an old and well known method of shaping gears.

Response to Arguments

Applicant's arguments filed 11/18/08 have been fully considered but they are not
persuasive. Applicant has amended the claims to recite how the crowning is done on
the gear. This is not persuasive since forging and cutting is an old and well known
method of shaping gear teeth.

Conclusion

4. The following are suggested formats for either a Certificate of Mailing or Certificate of Transmission under 37 CFR 1.8(a). The certification may be included with all correspondence concerning this application or proceeding to establish a date of mailing or transmission under 37 CFR 1.8(a). Proper use of this procedure will result in such communication being considered as timely if the established date is within the required period for reply. The Certificate should be signed by the individual actually depositing or transmitting the correspondence or by an individual who, upon information and belief, expects the correspondence to be mailed or transmitted in the normal course of business by another no later than the date indicated.

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents

Application/Control Number: 10/511,446 Art Unit: 3656 P.O. Box 1450 Alexandria, VA 22313-1450 (Date) Typed or printed name of person signing this certificate: Registration Number: Certificate of Transmission I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Fax No. ()_____ on_____. (Date) Typed or printed name of person signing this certificate:

Please refer to 37 CFR 1.6(d) and 1.8(a)(2) for filing limitations concerning facsimile transmissions and mailing, respectively.

Registration Number: _____

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Fenstermacher whose telephone number is 571-272-7102. The examiner can normally be reached on 10:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on 571-272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3656

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David M. Fenstermacher Primary Examiner Art Unit 3656

/David M. Fenstermacher/ Primary Examiner, Art Unit 3656